

09/822103

## Refine Search

Your wildcard search against 10000 terms has yielded the results below.

***Your result set for the last L# is incomplete.***

The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

### Search Results -

Terms	Documents
L23 and (shift\$ same (adjust\$ or set\$) same (threshold\$ or value or reference))	11

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L24

Refine Search

Recall Text

Clear

Interrupt

### Search History

DATE: Monday, July 31, 2006 [Printable Copy](#) [Create Case](#)

<u>Set</u> <u>Name</u> <u>Query</u> side by side	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR		
<u>L24</u> L23 and (shift\$ same (adjust\$ or set\$) same (threshold\$ or value or reference))	11	<u>L24</u>
<u>L23</u> l20 or l21 or l22	35	<u>L23</u>
DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR		
(5832400   4899285   5893894   5315897   5410477   5757289   5748476   5411449   5508931   4148231   5501644   5371678   5661650   4743913   <u>L22</u> 4630508   4380048   6176811   5737225   5790975   5024125   4635202   5684699   4208925   5177685   5419207   5048373   4896565   5247440   5571060   5545108   5499953   5716301)![PN]	32	<u>L22</u>
DB=PGPB,USPT; THES=ASSIGNEE; PLUR=YES; OP=OR		
<u>L21</u> ('6009374'   '5832400'   '6098005'   '6442467')[PN]	4	<u>L21</u>

*DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR*

(5832400   5893894   5315897   5757289   5748476   5411449   5508931	
4148231   5501644   5661650   6176811   5737225   5790975   5024125	
<u>L20</u> 4635202   5684699   4208925   5177685   5048373   4896565   5247440	25 <u>L20</u>
5571060   5545108   5499953   5716301)![PN]	

*DB=PGPB,USPT; THES=ASSIGNEE; PLUR=YES; OP=OR*

<u>L19</u> ('6009374  '6098005  '6442467')[PN]	3 <u>L19</u>
<u>L18</u> ('6009374  '5832400  '6098005  '6442467')[URPN]	54 <u>L18</u>
<u>L17</u> L16 and 701/\$.ccls.	0 <u>L17</u>
<u>L16</u> L14 and l9	0 <u>L16</u>
<u>L15</u> L14 and l8	0 <u>L15</u>
<u>L14</u> 6009374.pn. or 6442467.pn. or 5832400.pn. or 6098005.pn.	4 <u>L14</u>

*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR*

<u>L13</u> L12 and (shift\$ same (adjust\$ or set\$) same (threshold\$ or value or reference))	16 <u>L13</u>
<u>L12</u> l10 or L11	31 <u>L12</u>
<u>L11</u> L9 and @pd<=20010330	15 <u>L11</u>
<u>L10</u> L9 and @ad<=20010330	31 <u>L10</u>
<u>L9</u> .L8 and (control\$ with automatic\$ with transmission)	70 <u>L9</u>
<u>L8</u> (learn\$ or "ai" or (artificial\$ adj intelligent\$) or (neural adj network\$)) and "gps" and (control\$ with transmi\$).clm.	788 <u>L8</u>

*DB=PGPB,USPT; THES=ASSIGNEE; PLUR=YES; OP=OR*

<u>L7</u> L6 and "gps"	5 <u>L7</u>
<u>L6</u> (learn\$ or "ai" or (artificial\$ adj intelligent\$) or (neural adj network\$)).clm. and L1	55 <u>L6</u>
<u>L5</u> L4 and "gps"	2 <u>L5</u>
<u>L4</u> L2 and (learn\$ or "ai" or (artificial\$ adj intelligent\$) or (neural adj network\$)).clm.	20 <u>L4</u>
<u>L3</u> L2 and gps.clm.	5 <u>L3</u>
<u>L2</u> L1 and (control\$ with transmi\$ with signal\$).clm. and ((electronic\$ or electrical\$) adj signal\$).clm.	2526 <u>L2</u>
<u>L1</u> (control\$ with transmi\$ with signal\$).clm. and (electronic? or electrical\$) adj signal?	5613 <u>L1</u>

END OF SEARCH HISTORY

*Cite*[First Hit](#) [Fwd Refs](#)[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)

Generate Collection

Print

L24: Entry 2 of 11

File: USPT

Aug 1, 2000

US-PAT-NO: 6098005

DOCUMENT-IDENTIFIER: US 6098005 A

TITLE: Vehicle transmission controller for changing gear ratios in accordance with road features

DATE-ISSUED: August 1, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tsukamoto; Kazumasa	Anjo			JP
Kawai; Masao	Tokyo-to			JP
Aruga; Hideki	Tokyo-to			JP

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Aisin AW Co., Ltd.				JP	03
Kabushiki Kaisha Equos Research				JP	03

APPL-NO: 08/923639 [PALM]

DATE FILED: September 4, 1997

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	8-255436	September 4, 1996

INT-CL-ISSUED: [07] F16 H 59/66

US-CL-ISSUED: 701/65; 701/55, 477/97

US-CL-CURRENT: 701/65; 477/97, 701/55

FIELD-OF-CLASSIFICATION-SEARCH: 701/55, 701/56, 701/58, 701/65, 701/59, 701/208, 477/97, 477/34

See application file for complete search history.

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

Search Selected

Search ALL

Clear

PAT-NO

ISSUE-DATE

PATENTEE-NAME

US-CL

5716301

February 1998

Wild et al.

477/97

<input type="checkbox"/> <u>5832400</u>	November 1998	Takahashi et al.	701/53
<input type="checkbox"/> <u>5893894</u>	April 1999	Moroto et al.	701/53

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	CLASS
0 745 788 A1	December 1996	EP	
0 752 548 A2	January 1997	EP	
61-134269	October 1986	JP	

ART-UNIT: 361

PRIMARY-EXAMINER: Zanelli; Michael J.

ATTY-AGENT-FIRM: Lorusso &amp; Loud

## ABSTRACT:

There is provided control over transmission stages which suppresses unnecessary shifts to a higher speed based on road information stored in a navigation system to allow smooth acceleration. An intersection ahead of the vehicle in the traveling direction is detected based on the road information stored in the navigation system and, when the vehicle is decelerated as it approaches the intersection, an optimum transmission stage for acceleration is selected in advance in accordance with the speed of the vehicle by predicting the acceleration to be performed when exiting the intersection. This eliminates the need for a shift to a lower speed before effecting acceleration by pressing the accelerator and thereby ensures smooth acceleration.

8 Claims, 7 Drawing figures

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L24: Entry 2 of 11

File: USPT

Aug 1, 2000

DOCUMENT-IDENTIFIER: US 6098005 A

TITLE: Vehicle transmission controller for changing gear ratios in accordance with road features

Detailed Description Text (19):

For example, as shown in FIG. 6, a center P of an intersection is identified as a reference point and an interval extending 10 meters before the point P and 20 meters beyond the point P is set as an interval "e" in which shift control is to be performed. In the case of a curve, the deepest point of the curve ("clipping point") may be used as a reference point to set predetermined distances before and behind such a point, thereby determining an interval in which control is to be performed.

Detailed Description Text (32):

First, the position of the vehicle is detected by the current position detecting unit 13 and the upcoming intersection, crossing or other road feature identified by a shift reference point or node P (FIG. 6), is confirmed from the vehicle position. Then, a distance interval e for which control is to be performed is set to extend between positions before and beyond the reference point P, which positions are spaced apart from the reference point by predetermined distances in the traveling direction (step S10). After the distance interval (road section) e for which control is to be provided is set, control for the distance interval (FIG. 5) is commenced (step S20).

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## Hit List

**First Hit**

Your wildcard search against 10000 terms has yielded the results below.

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**Search Results - Record(s) 1 through 10 of 11 returned.**

☐ 1. Document ID: US 6176811 B1

L24: Entry 1 of 11

File: USPT

Jan 23, 2001

US-PAT-NO: 6176811

DOCUMENT-IDENTIFIER: US 6176811 B1

TITLE: Increased-spontaneity automatic gear box

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw De
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☐ 2. Document ID: US 6098005 A

L24: Entry 2 of 11

File: USPT

Aug 1, 2000

US-PAT-NO: 6098005

DOCUMENT-IDENTIFIER: US 6098005 A

TITLE: Vehicle transmission controller for changing gear ratios in accordance with road features

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw De
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☐ 3. Document ID: US 5571060 A

L24: Entry 3 of 11

File: USPT

Nov 5, 1996

US-PAT-NO: 5571060

DOCUMENT-IDENTIFIER: US 5571060 A

TITLE: Process for correcting the shifting quality of an automatic transmission

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw De
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☐ 4. Document ID: US 5545108 A

L24: Entry 4 of 11

File: USPT

Aug 13, 1996

US-PAT-NO: 5545108

DOCUMENT-IDENTIFIER: US 5545108 A

TITLE: Arrangement and method for controlling an automatic shift device of a gear-change transmission of a motor vehicle

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw De
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A ☐ 5. Document ID: US 5411449 A

L24: Entry 5 of 11

File: USPT

May 2, 1995

US-PAT-NO: 5411449

DOCUMENT-IDENTIFIER: US 5411449 A

TITLE: Gear shift control apparatus

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw De
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A- ☐ 6. Document ID: US 5048373 A

L24: Entry 6 of 11

File: USPT

Sep 17, 1991

US-PAT-NO: 5048373

DOCUMENT-IDENTIFIER: US 5048373 A

\*\* See image for Certificate of Correction \*\*

TITLE: Control apparatus for automatic transmission

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw De
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A ☐ 7. Document ID: US 5024125 A

L24: Entry 7 of 11

File: USPT

Jun 18, 1991

US-PAT-NO: 5024125

DOCUMENT-IDENTIFIER: US 5024125 A

TITLE: Shift control system for an automatic transmission

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw De
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A- ☐ 8. Document ID: US 4896565 A

L24: Entry 8 of 11

File: USPT

Jan 30, 1990

US-PAT-NO: 4896565

DOCUMENT-IDENTIFIER: US 4896565 A

TITLE: Process for the gear change of the automatic transmission of motor vehicles

controlled with an electrohydraulic valve system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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A ☐ 9. Document ID: US 4380048 A

L24: Entry 9 of 11

File: USPT

Apr 12, 1983

US-PAT-NO: 4380048

DOCUMENT-IDENTIFIER: US 4380048 A

TITLE: Shift control system for a vehicle automatic transmission

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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A ☐ 10. Document ID: US 4208925 A

L24: Entry 10 of 11

File: USPT

Jun 24, 1980

US-PAT-NO: 4208925

DOCUMENT-IDENTIFIER: US 4208925 A

TITLE: Electronic transmission control and method therefor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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Terms

Documents

L23 and (shift\$ same (adjust\$ or set\$) same  
(threshold\$ or value or reference))

11

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## Hit List

First Hit

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**Search Results** - Record(s) 11 through 11 of 11 returned.

A ☐ 11. Document ID: US 4148231 A  
L24: Entry 11 of 11

File: USPT

Apr 10, 1979

US-PAT-NO: 4148231

DOCUMENT-IDENTIFIER: US 4148231 A

TITLE: Automatic transmission control

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Alignments	Claims	KWIC	Drawings
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Terms	Documents
L23 and (shift\$ same (adjust\$ or set\$) same (threshold\$ or value or reference))	11

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First Hit Your wildcard search against 10000 terms has yielded the results below.

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**Search Results - Record(s) 1 through 10 of 16 returned.**

**A** ☐ 1. Document ID: US 20020143454 A1

L13: Entry 1 of 16

File: PGPB

Oct 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020143454

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020143454 A1

TITLE: Method and system for controlling an automatic transmission using a GPS assist having a learn mode

PUBLICATION-DATE: October 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Bates, Cary Lee	Rochester	MN	US
Crenshaw, Robert James	Apex	NC	US
Day, Paul Reuben	Rochester	MN	US
Santosuosso, John Matthew	Rochester	MN	US

US-CL-CURRENT: 701/51; 701/65

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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**A** ☐ 2. Document ID: US 20010049573 A1

L13: Entry 2 of 16

File: PGPB

Dec 6, 2001

PGPUB-DOCUMENT-NUMBER: 20010049573

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010049573 A1

TITLE: CONTROL SYSTEM FOR AUTOMATIC VEHICLE TRANSMISSIONS

PUBLICATION-DATE: December 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
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OHASHI, TATSUYUKI	WAKO-SHI	JP
NAKAUCHI, NORIO	WAKO-SHI	JP
KONNO, KAZUYUKI	WAKO-SHI	JP
SAITO, YOSHIHARU	WAKO-SHI	JP
HAGIWARA, KENJI	WAKO-SHI	JP
WAKAMATSU, HIDEKI	WAKO-SHI	JP
MORITA, YUKIO	WAKO-SHI	JP
SHIMADA, TAKAMICHI	WAKO-SHI	JP

US-CL-CURRENT: 701/51; 477/97, 701/53

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 3. Document ID: US 20010016795 A1

L13: Entry 3 of 16

File: PGPB

Aug 23, 2001

PGPUB-DOCUMENT-NUMBER: 20010016795  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20010016795 A1

TITLE: System and method for controlling vehicle braking operation

PUBLICATION-DATE: August 23, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Bellinger, Steven M.	Columbus	IN	US

US-CL-CURRENT: 701/53; 701/70

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 4. Document ID: US 6819995 B2

L13: Entry 4 of 16

File: USPT

Nov 16, 2004

US-PAT-NO: 6819995  
DOCUMENT-IDENTIFIER: US 6819995 B2

TITLE: System and method for controlling vehicle braking operation

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 5. Document ID: US 6516261 B2

L13: Entry 5 of 16

File: USPT

Feb 4, 2003

US-PAT-NO: 6516261

DOCUMENT-IDENTIFIER: US 6516261 B2

TITLE: Control system for automatic vehicle transmissions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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A- ☐ 6. Document ID: US 6436005 B1

L13: Entry 6 of 16

File: USPT

Aug 20, 2002

US-PAT-NO: 6436005

DOCUMENT-IDENTIFIER: US 6436005 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: System for controlling drivetrain components to achieve fuel efficiency goals

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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A- ☐ 7. Document ID: US 6356555 B1

L13: Entry 7 of 16

File: USPT

Mar 12, 2002

US-PAT-NO: 6356555

DOCUMENT-IDENTIFIER: US 6356555 B1

TITLE: Apparatus and method for digital data transmission using orthogonal codes

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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A ☐ 8. Document ID: US 6349253 B1

L13: Entry 8 of 16

File: USPT

Feb 19, 2002

US-PAT-NO: 6349253

DOCUMENT-IDENTIFIER: US 6349253 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: System and method for controlling downhill vehicle operation

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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A- ☐ 9. Document ID: US 6275760 B1

L13: Entry 9 of 16

File: USPT

Aug 14, 2001

US-PAT-NO: 6275760

DOCUMENT-IDENTIFIER: US 6275760 B1

TITLE: Control system for automatic vehicle transmissions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw De
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A ☐ 10. Document ID: US 6182000 B1

L13: Entry 10 of 16

File: USPT

Jan 30, 2001

US-PAT-NO: 6182000

DOCUMENT-IDENTIFIER: US 6182000 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Control system for transmissions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw De
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Terms	Documents
L12 and (shift\$ same (adjust\$ or set\$) same (threshold\$ or value or reference))	16

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Your wildcard search against 10000 terms has yielded the results below.

***Your result set for the last L# is incomplete.***

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**Search Results** - Record(s) 11 through 16 of 16 returned.

☐ 11. Document ID: US 6070118 A

L13: Entry 11 of 16

File: USPT

May 30, 2000

US-PAT-NO: 6070118

DOCUMENT-IDENTIFIER: US 6070118 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Transmission control system using road data to control the transmission

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 12. Document ID: US 5931886 A

L13: Entry 12 of 16

File: USPT

Aug 3, 1999

US-PAT-NO: 5931886

DOCUMENT-IDENTIFIER: US 5931886 A

TITLE: Control system for vehicular automatic transmission

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 13. Document ID: US 5658213 A

L13: Entry 13 of 16

File: USPT

Aug 19, 1997

US-PAT-NO: 5658213

DOCUMENT-IDENTIFIER: US 5658213 A

TITLE: Power train control apparatus and method for a vehicle

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 14. Document ID: US 5445577 A

L13: Entry 14 of 16

File: USPT

Aug 29, 1995

US-PAT-NO: 5445577

DOCUMENT-IDENTIFIER: US 5445577 A

TITLE: Method and apparatus for speed change control of an automatic transmission

Full	Title	Citation	Front	Review	Classification	Date	Reference	References	Attachments	Claims	KWIC	Draw De
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A<sup>+</sup> ☐ 15. Document ID: US 5443432 A

L13: Entry 15 of 16

File: USPT

Aug 22, 1995

US-PAT-NO: 5443432

DOCUMENT-IDENTIFIER: US 5443432 A

TITLE: Method and apparatus for speed change control of an automotive automatic transmission

Full	Title	Citation	Front	Review	Classification	Date	Reference	References	Attachments	Claims	KWIC	Draw De
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A<sup>+</sup> ☐ 16. Document ID: US 5435796 A

L13: Entry 16 of 16

File: USPT

Jul 25, 1995

US-PAT-NO: 5435796

DOCUMENT-IDENTIFIER: US 5435796 A

TITLE: Method and apparatus for speed change control of an automotive automatic transmission

Full	Title	Citation	Front	Review	Classification	Date	Reference	References	Attachments	Claims	KWIC	Draw De
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Terms

Documents

L12 and (shift\$ same (adjust\$ or set\$) same  
(threshold\$ or value or reference))

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